



Cisco Unified IP Phone 7961G/7961G-GE and 7941G/7941G-GE for Cisco Unified CallManager 5.0 (SIP)






INCLUDING LICENSE AND WARRANTY

Corporate Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100



Common Phone Tasks

View online help on the phone	Press  .
Place a call	Go off hook before or after dialing a number.
Redial a number	Press Redial. Or press the Navigation button while on-hook to see your Placed Calls log.
Switch to the handset during a call	Pick up the handset.
Switch to the speaker or headset during a call	Press  or  , then hang up the handset.
Mute your phone	Press  .
Use your call logs	Press  to choose a call log. To dial, highlight a listing and go off-hook.
Edit a number	Press EditDial, << or >>.
Hold/resume a call	Press Hold or Resume.
Transfer a call to a new number	Press Transfer, enter the number, then press Transfer again.
Start a standard conference call	Press more > Confrn, dial the participant, then press Confrn again.



Copyright © 2006 Cisco Systems, Inc. All rights reserved. Cisco, Cisco IOS, Cisco Systems, and the Cisco Systems logo are registered trademarks of Cisco Systems, Inc. in the United States and certain other countries. All other trademarks mentioned in this document are the property of their respective owners. The use of the word Partner does not imply a partnership relationship between Cisco and any other company. (0502R)

Softkey Definitions

AbbrDial	Dial using a speed dial index number
Answer	Answer a call
Back	Return to the previous Help topic
Barge	Add yourself to a call on a shared line
CallBack	Receive notification when a busy extension becomes available
Cancel	Cancel an action or exit a screen without applying changes
cBarge	Add yourself to a call on a shared line and establish a conference
CFwdALL	Set up/cancel call forwarding
Clear	Delete records or settings
Close	Close the current window
Conflist	View conference participants
Confrn	Create a conference call
Delete	Remove characters to the right of the cursor when using EditDial
Dial	Dial a phone number
DND	Turn off Do Not Disturb (DND)
EditDial	Edit a number in a call log
EndCall	Disconnect the current call
Erase	Reset settings to their defaults
Exit	Return to the previous screen
GPickUp	Answer a call ringing in another group
iDivert	Send a call to your voice messaging system
Links	View related Help topics










Cisco Unified IP Phone 7961G/7961G-GE and 7941G/7941G-GE for Cisco Unified CallManager 5.0 (SIP)

- Softkey Definitions
- Phone Screen Icons
- Button Icons
- Common Phone Tasks



Phone Screen Icons

Main	Display the Help main menu
MeetMe more	Host a Meet-Me conference call Display additional softkeys
NewCall	Make a new call
OPickUp	Answer a call ringing in an associated group
Park	Store a call using Call Park
PickUp	Answer a call in your group
QRT	Submit call problems to the system administrator
Redial	Redial the most recently dialed number
Remove	Remove a conference participant
Resume	Resume a call on hold
RmlstC	Drop the last party added to a conference call
Save	Save the chosen settings
Search	Search for a directory listing
Select	Select a menu item or call
Transfer	Transfer a call
Update	Refresh content
<<	Delete entered characters
>>	Move through entered characters




Line and Call State

	Call Forwarding enabled
	Call on hold
	Connected call
	Incoming call
	Off-hook
	On-hook
	Shared line in use





Secure Calls





	Authenticated call
	Encrypted call

Selected Device










	Handset in use
	Headset in use
	Speakerphone in use

Other Features

	Busy line in a speed-dial, call log, or directory listing (BLF feature)
	Idle line in speed-dial, call log, or directory listing (BLF feature)
	Speed-dial, call log, or directory listing (line status unknown)
	Message waiting

	Option selected
	Feature enabled
	Phone service URL assigned
	URL entry in a call log is ready to edit

Button Icons

	Messages
	Services
	Help
	Directories
	Settings
	Volume
	Speaker
	Mute
	Headset



Contents

Getting Started 1

- Using this Guide 1
- Finding Additional Information 2
- Safety and Performance Information 2
- Accessibility Features 11

Connecting Your Phone 12

An Overview of Your Phone 15

- Understanding Buttons and Hardware 15
- Understanding Phone Screen Features 19
 - Cleaning the Phone Screen 19
- Understanding Feature Buttons and Menus 20
 - Understanding the Help System on Your Phone 20
- Understanding Lines vs. Calls 21
 - Understanding Line and Call Icons 21
- Understanding Feature Availability 22

Basic Call Handling 23

- Placing a Call—Basic Options 23
- Placing a Call—Additional Options 24
- Answering a Call 25
- Ending a Call 26
- Using Hold and Resume 26
- Using Mute 27
- Switching Between Multiple Calls 27
- Viewing Multiple Calls 27
- Transferring Calls 28

Forwarding All Calls to Another Number	29
Using Do Not Disturb	30
Making Conference Calls	31
Understanding Types of Conference Calls	31
Starting and Joining a Standard Conference	31
Starting or Joining a Meet-Me Conference Call	33

Advanced Call Handling 34

Speed Dialing	34
Picking Up a Redirected Call on Your Phone	35
Using a Shared Line	36
Understanding Shared Lines	36
Adding Yourself to a Shared-Line Call	37
Preventing Others from Viewing or Barging a Shared-Line Call	38
Storing and Retrieving Parked Calls	38
Making and Receiving Secure Calls	39
Using Cisco Extension Mobility	40
Using BLF to Determine a Line State	40

Using a Handset, Headset, and Speakerphone 41

Obtaining a Headset	41
Using AutoAnswer	42

Using Phone Settings 43

Customizing Rings and Message Indicators	43
Customizing the Phone Screen	44

Using Call Logs and Directories 45

Using Call Logs	45
Directory Dialing	46
Using Corporate Directory on Your Phone	47
Using Personal Directory on Your Phone	48

Accessing Voice Messages 51

Customizing Your Phone on the Web 52

Accessing Your User Options Web Pages 52

Configuring Features and Services on the Web 53

 Using Personal Directory on the Web 53

 Using Your Personal Address Book on the Web 53

 Configuring Fast Dials on the Web 54

 Using the Address Book Synchronization Tool 55

 Setting Up Speed Dials on the Web 55

 Setting Up Phone Services on the Web 56

 Controlling User Settings on the Web 57

 Controlling Line Settings on the Web 58

 Using Cisco WebDialer 60

Understanding Additional Configuration Options 62

Troubleshooting Your Phone 64

General Troubleshooting 64

Viewing Phone Administration Data 65

Using the Quality Reporting Tool 65

Cisco One-Year Limited Hardware Warranty Terms 66


Index 69



Getting Started

Using this Guide

This guide provides you with an overview of the features available on your phone. You can read it completely for a solid understanding of your phone's capabilities, or refer to the table below for pointers to commonly used sections.

If you want to...	Then...
Explore your phone on your own	Press  on the phone when you need assistance.
Review safety information	See the “Safety and Performance Information” section on page 2.
Connect your phone	See the “Connecting Your Phone” section on page 12.
Use your phone after it is installed	Start with the “An Overview of Your Phone” section on page 15.
Learn what the button lights mean	See the “Understanding Buttons and Hardware” section on page 15.
Learn about the display	See the “Understanding Phone Screen Features” section on page 19.
Make calls	See the “Placing a Call—Basic Options” section on page 23.
Put calls on hold	See the “Using Hold and Resume” section on page 26.
Mute calls	See the “Using Mute” section on page 27.
Transfer calls	See the “Transferring Calls” section on page 28.
Make conference calls	See the “Making Conference Calls” section on page 31.
Set up speed dialing	See the “Speed Dialing” section on page 34.
Share a phone number	See the “Using a Shared Line” section on page 36.
Use your phone as a speakerphone	See the “Using a Handset, Headset, and Speakerphone” section on page 41.
Change the ring volume or tone	See the “Using Phone Settings” section on page 43.
View your missed calls	See the “Using Call Logs and Directories” section on page 45.
Listen to your voice messages	See the “Accessing Voice Messages” section on page 51.
See softkey and icon definitions	See the Quick Reference Card in the front of this guide.

Finding Additional Information

You can access the most current Cisco Unified IP Phone documentation on the World Wide Web at this URL:

http://www.cisco.com/univercd/cc/td/doc/product/voice/c_ipphon/index.htm

You can access the Cisco website at this URL:

<http://www.cisco.com/>

International Cisco websites can be accessed from this URL:

http://www.cisco.com/public/countries_languages.shtml

Safety and Performance Information

Read the following safety notices before installing or using your Cisco Unified IP Phone:



Warning

IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

SAVE THESE INSTRUCTIONS

Waarschuwing

BELANGRIJKE VEILIGHEIDSIINSTRUCTIES

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

BEWAAR DEZE INSTRUCTIES

Varoitus TÄRKEITÄ TURVALLISUUSOHJEITA

Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelyyn liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.

SÄILYTÄ NÄMÄ OHJEET**Attention IMPORTANTES INFORMATIONS DE SÉCURITÉ**

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

CONSERVEZ CES INFORMATIONS**Warnung WICHTIGE SICHERHEITSHINWEISE**

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.

BEWAHREN SIE DIESE HINWEISE GUT AUF.

Avvertenza **IMPORTANTI ISTRUZIONI SULLA SICUREZZA**

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.

CONSERVARE QUESTE ISTRUZIONI

Advarsel **VIKTIGE SIKKERHETSINSTRUKSJONER**

Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.

TA VARE PÅ DISSE INSTRUKSJONENE

Aviso **INSTRUÇÕES IMPORTANTES DE SEGURANÇA**

Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.

GUARDE ESTAS INSTRUÇÕES

¡Advertencia! **INSTRUCCIONES IMPORTANTES DE SEGURIDAD**

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES

Varning! VIKTIGA SÄKERHETSANVISNINGAR

Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.

SPARA DESSA ANVISNINGAR**Figyelem FONTOS BIZTONSÁGI ELOÍRÁSOK**

Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejtő helyzetben van. Mielőtt bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmeztetések fordítása a készülékhez mellékelte biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján kereshető meg.

ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!**Предупреждение ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ**

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ

警告 重要的安全性说明

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。

请保存这些安全性说明

警告 安全上の重要な注意事項

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

주의 중요 안전 지침

이 경고 기호는 위험을 나타냅니다. 작업자가 신체 부상을 일으킬 수 있는 위험한 환경에 있습니다. 장비에 작업을 수행하기 전에 전기 회로와 관련된 위험을 숙지하고 표준 작업 관례를 숙지하여 사고를 방지하십시오. 각 경고의 마지막 부분에 있는 경고문 번호를 참조하여 이 장치와 함께 제공되는 번역된 안전 경고문에서 해당 번역문을 찾으십시오.

이 지시 사항을 보관하십시오.

Aviso **INSTRUÇÕES IMPORTANTES DE SEGURANÇA**

Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.

GUARDE ESTAS INSTRUÇÕES

Advarsel VIGTIGE SIKKERHEDSANVISNINGER

Dette advarselssymbol betyder fare. Du befinder dig i en situation med risiko for legemesbeskadigelse. Før du begynder arbejde på udstyr, skal du være opmærksom på de involverede risici, der er ved elektriske kredsløb, og du skal sætte dig ind i standardprocedurer til undgåelse af ulykker. Brug erklæringsnummeret efter hver advarsel for at finde oversættelsen i de oversatte advarsler, der fulgte med denne enhed.

GEM DISSE ANVISNINGER

تحذير

إرشادات الأمان الهامة

يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض لإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمات الكهربائية وكن على علم بالإجراءات القياسية للحيلولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في آخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات

Upozorenje VAŽNE SIGURNOSNE NAPOMENE

Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.

SAČUVAJTE OVE UPUTE**Upozornění DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY**

Tento upozorňující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznámte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.

USCHOVEJTE TYTO POKYNY

Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνήθεις πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.

ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ

אזהרה

הוראות בטיחות חשובות

סימן אזהרה זה מסמל סכנה. אתה נמצא במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כדי לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.

שמור הוראות אלה

Opomena

ВАЖНИ БЕЗБЕДНОСНИ НАПАТСТВИЈА

Симболот за предупредување значи опасност. Се наоѓате во ситуација што може да предизвика телесни повреди. Пред да работите со опремата, бидете свесни за ризикот што постои кај електричните кола и треба да ги познавате стандардните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во преведените безбедносни предупредувања што се испорачани со уредот.

ЧУВАЈТЕ ГИ ОВИЕ НАПАТСТВИЈА

Ostrzeżenie WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA

Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.

NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ

Upozornenie DÔLEŽITÉ BEZPEČNOSTNÉ POKYNY

Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhľadajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.

USCHOVAJTE SI TENTO NÁVOD



Warning

Read the installation instructions before you connect the system to its power source.



Warning

Ultimate disposal of this product should be handled according to all national laws and regulations.



Warning

Do not work on the system or connect or disconnect cables during periods of lightning activity.

**Warning**

To avoid electric shock, do not connect safety extra low voltage (SELV) circuits to telephone network voltage (TNV) circuits. LAN ports contain SELV circuits, and WAN ports contain TNV circuits. Some LAN and WAN ports use RJ-45 connectors. Use caution when connecting cables.

**Caution**

Inline power circuits provide current through the communication cable. Use the Cisco provided cable or a minimum 24 AWG communication cable.

Using an External Power Supply

The following warnings apply when you use the external power supply with the Cisco Unified IP Phone:

**Warning**

This product relies on the building's installation for short-circuit (over current) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15A U.S. (240 VAC, 10A international) is used on the phase conductors (all current-carrying conductors).

**Warning**

The device is designed to work with TN power systems.

**Warning**

The plug-socket combination must be accessible at all times because it serves as the main disconnecting device.

**Warning**

The power supply must be placed indoors.

**Caution**

Only use the Cisco specified power supply with this product.

Power Outage

Your accessibility to emergency service through the phone is dependent on the phone being powered. If there is an interruption in the power supply, Service and Emergency Calling Service dialing will not function until power is restored. In the case of a power failure or disruption, you may need to reset or reconfigure equipment before using the Service or Emergency Calling Service dialing.

Using External Devices

The following information applies when you use external devices with the Cisco Unified IP Phone:

Cisco recommends the use of good quality external devices (such as headsets) that are shielded against unwanted radio frequency (RF) and audio frequency (AF) signals.

Depending on the quality of these devices and their proximity to other devices such as mobile phones or two-way radios, some audio noise may still occur. In these cases, Cisco recommends that you take one or more of the following actions:

- Move the external device away from the source of the RF or AF signals.
- Route the external device cables away from the source of the RF or AF signals.
- Use shielded cables for the external device, or use cables with a better shield and connector.
- Shorten the length of the external device cable.
- Apply ferrites or other such devices on the cables for the external device.

Cisco cannot guarantee the performance of the system because Cisco has no control over the quality of external devices, cables, and connectors. The system will perform adequately when suitable devices are attached using good quality cables and connectors.



Caution

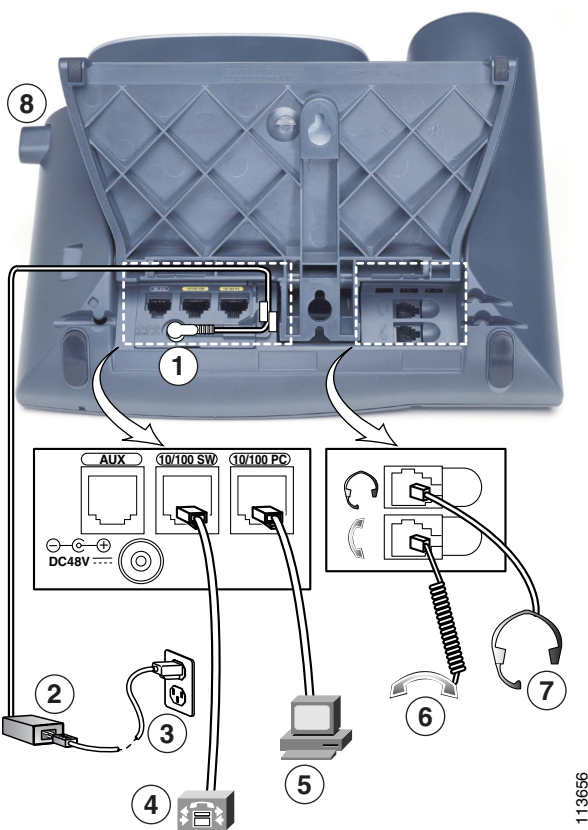
In European Union countries, use only external speakers, microphones, and headsets that are fully compliant with the EMC Directive [89/336/EC].

Accessibility Features

A list of accessibility features is available upon request.

Connecting Your Phone

Your system administrator will likely connect your new Cisco Unified IP Phone to the corporate IP telephony network. If that is not the case, refer to the figure and table below to connect your phone.



1	DC adaptor port (DC48V)	5	Access port (10/100 ¹ PC)
2	AC-to-DC power supply	6	Handset port
3	AC power cord	7	Headset port
4	Network port (10/100 ¹ SW)	8	Footstand button

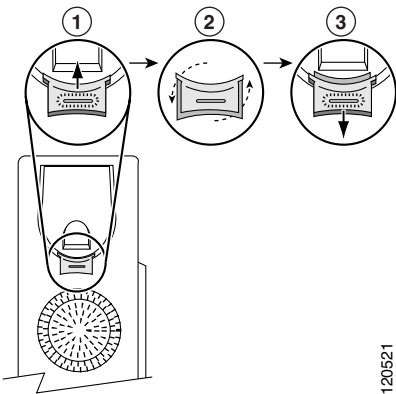
1. Your phone may show 10/100/1000.

Adjusting the Footstand

To change the angle of the phone base, adjust the footstand while pressing the footstand button.

Adjusting the Handset Rest

Cisco recommends adjusting the handset rest, particularly when wall mounting the phone, as this will ensure that the receiver will not readily slip out of the cradle. See the table below for instructions.



1	Set the handset aside and pull the square plastic tab from the handset rest.
2	Rotate the tab 180 degrees.
3	Slide the tab back into the handset rest. An extension protrudes from the top of the rotated tab. Return the handset to the handset rest.

Registering with TAPS

After your phone is connected to the network, your system administrator might ask you to auto-register your phone using TAPS (Tool for Auto-Registered Phones Support). TAPS might be used for a new phone or to replace an existing phone.

To register with TAPS, pick up the handset, enter the TAPS extension provided by your system administrator, and follow the voice prompts. You might need to enter your entire extension, including the area code. After your phone displays a confirmation message, hang up. The phone will re-start.

Headset Information

To use a headset, connect it to the headset port on the back of your phone.

Although Cisco Systems performs some internal testing of third-party headsets for use with the Cisco Unified IP Phones, Cisco does not certify or support products from headset or handset vendors. Because of the inherent environmental and hardware inconsistencies in the locations where Cisco Unified IP Phones are deployed, there is not a single “best” solution that is optimal for all environments. Cisco recommends that customers test the headsets that work best in their environment before deploying a large number of units in their network.

In some instances, the mechanics or electronics of various headsets can cause remote parties to hear an echo of their own voice when they speak to Cisco Unified IP Phone users.

Cisco Systems recommends the use of good quality external devices, like headsets that are screened against unwanted radio frequency (RF) and audio frequency (AF) signals. Depending on the quality of these devices and their proximity to other devices such as cell phones and two-way radios, some audio noise may still occur. See the “Using External Devices” section on page 11 for more information.

The primary reason that a particular headset would be inappropriate for the Cisco Unified IP Phone is the potential for an audible hum. This hum can be heard by either the remote party or by both the remote party and you, the Cisco Unified IP Phone user. Some potential humming or buzzing sounds can be caused by a range of outside sources, for example, electric lights, being near electric motors, large PC monitors. In some cases, a hum experienced by a user may be reduced or eliminated by using a local power cube. See the “Using an External Power Supply” section on page 10 for more information.

Audio Quality Subjective to the User

Beyond the physical, mechanical and technical performance, the audio portion of a headset must sound good to you (the user) and to the party on the far end. Sound is subjective and Cisco cannot guarantee the performance of any headsets or handsets, but some of the headsets and handsets on the sites listed below have been reported to perform well on Cisco Unified IP Phones.

Nevertheless, it is ultimately still the customer's responsibility to test this equipment in their own environment to determine suitable performance.

For information about headsets, see:

<http://www.vxicorp.com/cisco>

<http://www.plantronics.com>

An Overview of Your Phone

The Cisco Unified IP Phone 7961G and 7961G-GE (gigabit Ethernet version) and the 7941G and 7941G-GE (gigabit Ethernet version) are full-feature telephones that provide voice communication over the same data network that your personal computer uses, allowing you to place and receive phone calls, put calls on hold, speed dial numbers, transfer calls, make conference calls, and so on.

The gigabit Ethernet Cisco Unified IP Phone 7961G-GE and 7941G-GE deliver the latest technology and advancements in Gigabit Ethernet VoIP telephony, providing gigabit throughput to your desktop.

In addition to basic call-handling features, your phone can provide enhanced productivity features that extend your call-handling capabilities. Depending on configuration, your phone supports:

- Access to network data, XML applications, and web-based services.
- Online customizing of phone features and services from your User Options web pages.
- A comprehensive online help system that displays information on the phone screen.

Understanding Buttons and Hardware












You can use Figure 1 and Figure 2 to identify buttons and hardware on your phone.







Figure 1 Cisco Unified IP Phone 7961G and 7961G-GE



Figure 2 Cisco Unified IP Phone 7941G and 7941G-GE

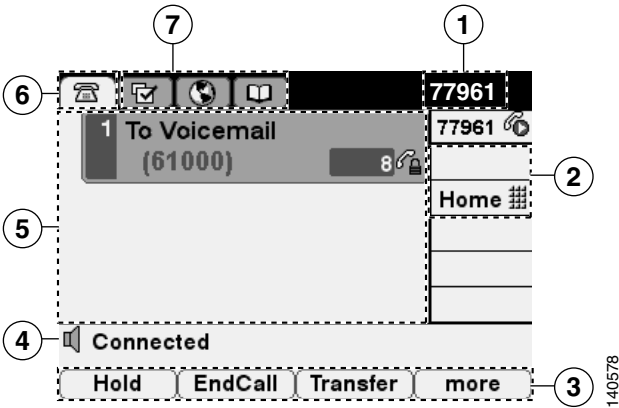




	Item	Description	For more information, see...
1	Programmable buttons 	Depending on configuration, programmable buttons provide access to: <ul style="list-style-type: none"> • Phone lines (line buttons) • Speed-dial numbers (speed-dial buttons, including the BLF speed-dial feature) • Web-based services (for example, a Personal Address Book (PAB) button) • Phone features (for example, a Privacy button) The buttons illuminate to indicate status: <ul style="list-style-type: none">  Green, steady—Active call  Green, flashing—Held call  Amber, steady—Privacy in use  Amber, flashing—Incoming call  Red, steady—Remote line in use (shared line or BLF status) 	<ul style="list-style-type: none"> • Understanding Phone Screen Features, page 19 • Basic Call Handling, page 23 • Speed Dialing, page 34 • Using a Shared Line, page 36 • Using BLF to Determine a Line State, page 40
2	Phone screen	Shows phone features.	Understanding Phone Screen Features, page 19
3	Footstand button	Allows you to adjust the angle of the phone base.	Adjusting the Footstand, page 13
4	Messages button 	Auto-dials your voice message service (varies by service).	Accessing Voice Messages, page 51
5	Directories button 	Opens/closes the Directories menu. Use it to access call logs and directories.	Using Call Logs, page 45
6	Help button 	Activates the Help menu.	Understanding the Help System on Your Phone, page 20
7	Settings button 	Opens/closes the Settings menu. Use it to control phone screen contrast and ring sounds.	Using Phone Settings, page 43
8	Services button 	Opens/closes the Services menu.	Customizing Your Phone on the Web, page 52

	Item	Description	For more information, see...
9	Volume button 	Controls the handset, headset, and speakerphone volume (off-hook) and the ringer volume (on-hook).	Using a Handset, Headset, and Speakerphone, page 41
10	Speaker button 	Toggles the speakerphone on or off. When the speakerphone is on, the button is lit.	Using a Handset, Headset, and Speakerphone, page 41
11	Mute button 	Toggles the Mute feature on or off. When Mute is on, the button is lit.	Using Mute, page 27
12	Headset button 	Toggles the headset on or off. When the headset is on, the button is lit.	Using a Handset, Headset, and Speakerphone, page 41
13	Navigation button 	Allows you to scroll through menus and highlight items. When the phone is on-hook, displays phone numbers from your Placed Calls log.	Using Call Logs, page 45
14	Keypad	Allows you to dial phone numbers, enter letters, and choose menu items.	Basic Call Handling, page 23
15	Softkey buttons 	Each activates a softkey option (displayed on your phone screen).	Understanding Phone Screen Features, page 19
16	Handset light strip	Indicates an incoming call or new voice message.	Accessing Voice Messages, page 51

Understanding Phone Screen Features

This is what your main phone screen might look like with active calls and several feature menus open:








1	Primary phone line	Displays the phone number (directory number) for your primary phone line. When several feature tabs are open, the phone number and the time and date alternate display in this area.
2	Programmable button indicators	Programmable buttons  can serve as phone line buttons, speed-dial buttons, phone service buttons or phone feature buttons. Icons and labels indicate how these buttons are configured. For an icon reference, see the “Phone Screen Icons” section in the Quick Reference Card at the front of this guide.
3	Softkey labels	Each displays a softkey function. To activate a softkey, press the softkey button  .
4	Status line	Displays audio mode icons, status information, and prompts.
5	Call activity area	Displays current calls per line, including caller ID, call duration, and call state for the highlighted line (standard view). See the “Understanding Line and Call Icons” section on page 21 and the “Viewing Multiple Calls” section on page 27.
6	Phone tab	Indicates call activity. Press this tab to return to the call activity area, if needed.
7	Feature tabs	Each indicates an open feature menu. See the “Understanding Feature Buttons and Menus” section on page 20.

Cleaning the Phone Screen

Use only a soft, dry cloth to wipe the phone screen. Do not use any liquids or powders on the phone, as they can contaminate phone components and cause failures.








Understanding Feature Buttons and Menus

Press a feature button to open or close a feature menu.

If you want to...	Then...
Open or close a feature menu	Press a feature button: <div> Messages</div> <div> Services</div> <div> Directories</div> <div> Settings</div> <div> Help</div>
Scroll through a list or menu	Press the Navigation button.
Go back one level in a feature menu	Press Exit . Pressing Exit from the top level of a menu, closes the menu.
Switch among open feature menus	Press a feature tab. Each feature menu has a corresponding tab. The tab is visible when the feature menu is open.


Understanding the Help System on Your Phone

Your phone provides a comprehensive online help system. Help topics appear on the phone screen.

If you want to...	Then...
View the main menu	Press  on your phone and wait a few seconds for the menu to display. Main menu topics include: <ul style="list-style-type: none">• About Your Cisco Unified IP Phone—Details about your phone• How do I...?—Procedures for common phone tasks• Calling Features—Descriptions and procedures for calling features• Help—Tips on using and accessing Help
Learn about a button or softkey	Press  , then quickly press a button or softkey.
Learn about a menu item	Press  ,  , or  to display a feature menu. Highlight a menu item, then press  twice quickly.
Get help using Help	Press  twice quickly. Select the help topic you need.

Understanding Lines vs. Calls











To avoid confusion about lines and calls, refer to these descriptions:

Lines—Each line corresponds to a directory number that others can use to call you. The Cisco Unified IP Phone 7961G/7961G-GE supports one to six lines and the Cisco Unified IP Phone 7941G/7941G-GE supports one to two lines, depending on configuration. To see how many lines you have, look at the right side of your phone screen. You have as many lines as you have directory numbers and phone line icons: .

Calls—Each line can support multiple calls. By default, your phone supports four connected calls per line, but your system administrator can adjust this number according to your needs. Only one call can be active at any time; other calls are automatically placed on hold.

Understanding Line and Call Icons

Your phone displays icons to help you determine the language (locale) settings, and the call and line state.

Icon	Line or Call State	Description
	On-hook line	No call activity on this line.
	Off-hook line	You are dialing a number or an outgoing call is ringing.
	Connected call	You are currently connected to the other party.
	Ringing call	An incoming call is ringing on one of your lines.
	Call on hold	You have put the call on hold. See the “Using Hold and Resume” section on page 26.
	Remote-in-use	Another phone that shares your line has a connected call. See the “Using a Shared Line” section on page 36 for details.
	Authenticated call	See the “Making and Receiving Secure Calls” section on page 39.
	Encrypted call	See the “Making and Receiving Secure Calls” section on page 39.
	Idle line (BLF)	See the “Using BLF to Determine a Line State” section on page 40.
	Busy line (BLF)	See the “Using BLF to Determine a Line State” section on page 40.

Understanding Feature Availability





Depending on your phone system configuration, features included in this Phone Guide might not be available to you or might work differently on your phone. Contact your support desk or system administrator for information about feature operation or availability.

Basic Call Handling



You can perform basic call-handling tasks using a range of features and services. Feature availability can vary; see your system administrator for more information.

Placing a Call—Basic Options

Here are some easy ways to place a call on your Cisco Unified IP Phone.




If you want to...	Then...	For more information, see...
Place a call using the handset	Pick up the handset and enter a number.	An Overview of Your Phone, page 15
Place a call using the speakerphone	Press  and enter a number.	Using a Handset, Headset, and Speakerphone, page 41
Place a call using a headset	Press  and enter a number. Or if  is lit, press New Call and enter a number.	Using a Handset, Headset, and Speakerphone, page 41
Redial a number	Press Redial to dial the last number, or press the Navigation button (with the phone idle) to see your Placed Calls.	Using Call Logs, page 45
Place a call when another call is active (using the same line)	<ol style="list-style-type: none"> 1. Press Hold. 2. Press New Call. 3. Enter a number. 	Using Hold and Resume, page 26
Dial from a call log	<ol style="list-style-type: none"> 1. Choose  > Missed Calls, Received Calls, or Placed Calls. 2. Select the listing or scroll to it and go off-hook. 	Using Call Logs, page 45


Tips

- You can dial on-hook, without a dial tone (pre-dial). To pre-dial, enter a number, then go off-hook by lifting the handset or pressing **Dial**, , or .
- When you pre-dial, your phone tries to anticipate the number you are dialing by displaying matching numbers (if available) from your Placed Calls log. This is called Auto Dial. To call a number displayed with Auto Dial, press the number, or scroll to it and go off-hook.
- If you make a mistake while dialing, press << to erase digits.

Placing a Call—Additional Options







You can place calls using special features and services that might be available on your phone. See your system administrator for more information about these additional options.

If you want to...	Then...	For more information, see...
Place a call while another call is active (using a different line)	<ol style="list-style-type: none"> 1. Press  for the new line. The first call is automatically placed on hold. 2. Enter a number. 	Using Hold and Resume, page 26
Speed dial a number	Do one of the following: <ul style="list-style-type: none"> • Press  (a speed-dial button). • Use the Abbreviated Dial feature. • Use the Fast Dial feature. 	Speed Dialing, page 34
Dial from a corporate directory on your phone	<ol style="list-style-type: none"> 1. Choose  > Corporate Directory (name can vary). 2. Enter a name and press Search. 3. Highlight a listing and go off-hook. 	Using Call Logs, page 45
Dial from a corporate directory on your personal computer using Cisco WebDialer	<ol style="list-style-type: none"> 1. Open a web browser and go to a WebDialer-enabled corporate directory. 2. Highlight a listing and Click Dial. 	Using Cisco WebDialer, page 60
Use Cisco CallBack to receive notification when a busy or ringing extension is available	<ol style="list-style-type: none"> 1. Press CallBack while listening to the busy tone or ring sound. 2. Hang up. Your phone alerts you when the line is free. 3. Place the call again. 	Your system administrator
See if a line associated with a speed-dial, call record, or directory listing is busy before placing a call to that line	Look for Busy Lamp Field indicators.	Using BLF to Determine a Line State, page 40

If you want to...	Then...	For more information, see...
Dial from a Personal Address Book (PAB) entry	<ol style="list-style-type: none"> 1. Choose  > Personal Directory to log in. 2. Choose Personal Address Book and search for a listing. 	Using Personal Directory on Your Phone, page 48
Place a call using your Cisco Extension Mobility profile	Log in to the Extension Mobility service on a phone.	Using Cisco Extension Mobility, page 40



Answering a Call

You can answer a call by lifting the handset, or you can use other options if they are available on your phone.

If you want to...	Then...	For more information, see...
Answer with a headset	Press  , if unlit. Or, if  is already lit, press Answer or  (the flashing line button).	Using a Handset, Headset, and Speakerphone, page 41
Answer with the speakerphone	Press  , Answer , or  (flashing).	Using a Handset, Headset, and Speakerphone, page 41
Switch from a connected call to answer a new call	Press Answer , or if the call is ringing on a different line, press  (flashing).	Using Hold and Resume, page 26
Answer using call waiting	Press Answer .	Using Hold and Resume, page 26
Send a call to your voice messaging system	Press iDivert .	Accessing Voice Messages, page 51
Auto-connect calls	Use AutoAnswer.	Using AutoAnswer, page 42
Retrieve a parked call on another phone	Use Call Park.	Storing and Retrieving Parked Calls, page 38
Use your phone to answer a call ringing elsewhere	Use Call Pickup.	Picking Up a Redirected Call on Your Phone, page 35


Ending a Call

To end a call, hang up. See the following table for details.


If you want to...	Then...
Hang up while using the handset	Return the handset to its cradle. Or press EndCall .
Hang up while using the headset	Press  . If you want to keep headset mode activate, press EndCall .
Hang up while using the speakerphone	Press  or EndCall .
Hang up one call but preserve another call on the same line	Press EndCall . If necessary, remove the call from hold first.

Using Hold and Resume

Only one call can be active at any given time; all other calls will be placed on hold.



If you want to...	Then...
Put a call on hold	<ol style="list-style-type: none">1. Make sure the call you want to put on hold is highlighted.2. Press Hold.
Remove a call from hold on the current line	<ol style="list-style-type: none">1. Make sure that the appropriate call is highlighted.2. Press Resume.
Remove a call from hold on a different line	Press  for the appropriate line. If a single call holding on this line, the call automatically resumes. If multiple calls are holding, scroll to the appropriate call and press Resume .

Tips

- Engaging the Hold feature typically generates music or a beeping tone.
- A held call is indicated by the call-on-hold icon: .



Using Mute

With Mute enabled, you can hear other parties on a call but they cannot hear you. You can use Mute in conjunction with the handset, speakerphone, or a headset.

If you want to...	Then...
Toggle Mute on	Press  .
Toggle Mute off	Press  .

Switching Between Multiple Calls

You can switch between multiple calls on one or more lines. If the call that you want to switch to is not automatically highlighted, use the Navigation button to scroll to it.

If you want to...	Then...
Switch between connected calls on one line	<ol style="list-style-type: none"> 1. Make sure the call that you want to switch to is highlighted. 2. Press Resume. Any active call is placed on hold and the selected call is resumed.
Switch between connected calls on different lines	Press  for the line that you are switching to. If a single call is holding on the line, the call automatically resumes. If multiple calls are holding, highlight the appropriate call and press Resume .
Switch from a connected call to answer a ringing call	Press Answer , or if the call is ringing on a different line press  (flashing). Any active call is placed on hold and the selected call is resumed.





Viewing Multiple Calls

Understanding how multiple calls are displayed on your phone can help you organize your call-handling efforts.

In standard viewing mode, your phone displays calls as follows for the highlighted line:

- Calls with the highest precedence and longest duration display at the top of the list.
- Calls of a similar type are grouped together. For example, calls that you have interacted with are grouped near the top, and calls on hold are grouped last.

You can use these additional methods to view multiple calls on multiple lines:

If you want to...	Then...
View calls on another line	<ol style="list-style-type: none">1. Press .2. Immediately press the line button .
See an overview of line activity (one call per line)	<p>Press .</p> <p>The phone switches to call overview mode, displaying one call per line. The displayed call is either the active call or the held call with the longest duration.</p> <p>To return to standard viewing mode, press , then immediately press the line button.</p>

Transferring Calls

Transfer redirects a connected call. The *target* is the number to which you want to transfer the call.


If you want to...	Then...
Transfer a call without talking to the transfer recipient	<ol style="list-style-type: none">1. From an active call, press Transfer.2. Enter the target number.3. Press Transfer again to complete the transfer or EndCall to cancel. <p>Note If your phone supports on-hook transfer, you can alternately complete the transfer by hanging up.</p>
Talk to the transfer recipient before transferring a call (consult transfer)	<ol style="list-style-type: none">1. From an active call, press Transfer.2. Enter the target number.3. Wait for the transfer recipient to answer.4. Press Transfer again to complete the transfer or EndCall to cancel. <p>Note If your phone supports on-hook transfer, you can alternately complete the transfer by hanging up.</p>
Redirect a call to your voice messaging system	Press iDivert . The call is automatically transferred to your voice message greeting. You can use iDivert with a call that is active, ringing, or on hold.

Tips

- If on-hook transfer is enabled on your phone, you can either hang up to complete the call, or press **Transfer** and then hang up.
- If on-hook transfer is *not* enabled on your phone, hanging up without pressing **Transfer** again places the call on hold.
- You cannot use **Transfer** to redirect a call on hold. Press **Resume** to remove the call from hold before transferring it.

Forwarding All Calls to Another Number

You can use Call Forward All to redirect incoming calls from your phone to another number.



If you want to...	Then...
Set up call forwarding on your primary line	Press CFwdALL and enter a target phone number.
Cancel call forwarding on your primary line	Press CFwdALL .
Verify that call forwarding is enabled on your primary line	Look for: <ul style="list-style-type: none"> • The call forward icon above the primary phone number: . • The call forwarding target number in the status line.
Set up or cancel call forwarding remotely, or for a non-primary line	<ol style="list-style-type: none"> 1. Log in to your User Options web pages. (See the “Accessing Your User Options Web Pages” section on page 52.) 2. Access your call forwarding settings. (See the “Controlling Line Settings on the Web” section on page 58.) <p>Note When call forwarding is enabled for any line other than the primary line, your phone does not provide you with any confirmation that calls are being forwarded. Instead, you must confirm your settings in the User Options web pages.</p>

Tips

- Enter the call forward target number exactly as you would dial it from your phone. For example, enter an access code or the area code, if necessary.
- You can forward your calls to a traditional analog phone or to another IP phone, although your system administrator might restrict the call forwarding feature to numbers within your company.
- Call forwarding is phone line specific. If a call reaches you on a line where call forwarding is not enabled, the call will ring as usual.
- Your system administrator can change call forwarding conditions for your phone lines.

Using Do Not Disturb

You can use the Do Not Disturb (DND) feature to block incoming calls on your phone with a busy tone.

If you want to...	Then...
Turn on DND	<div><div>1. Press  > Device Configuration > Call Preferences > Do Not Disturb.</div><div>2. Select Yes, and then press Save.</div><div>“Do Not Disturb” displays on the status line, and a DND softkey is added.</div></div>
Turn off DND	<div>Press the DND softkey or:</div> <div><div>1. Press  > Device Configuration > Call Preferences > Do Not Disturb.</div><div>2. Select No, and then press Save.</div></div>

Tips

- When DND is turned on:
 - The DND blocking feature applies to all the lines on your phone.
 - Received calls are not logged to the Missed Calls directory on your phone.
- When DND and Call Forward All are both enabled on your phone, Call Forward All takes precedence on incoming calls. That is, calls will be forwarded and the caller will not hear a busy tone.
- If DND is not enabled on your phone, see your system administrator.

Making Conference Calls

Your Cisco Unified IP Phone allows you to combine three or more separate calls into one conversation, creating a conference call.

Understanding Types of Conference Calls

There are two types of conference calls: Standard and Meet-Me.

Standard Conference Calls

You can create a standard conference in different ways, depending on your needs and the softkeys available on your phone:

- **Confrn**—Use this softkey to establish a standard conference by calling each participant. Standard conference calling is a default feature available on most phones.
- **cBarge**—Use this softkey to add yourself to an existing call on a shared line and to turn the call into a standard conference call. This feature is available only on phones that use shared lines.

See the “Starting and Joining a Standard Conference” section on page 31 for additional instructions.

Meet-Me Conference Calls

You can create a Meet-Me conference by calling the Meet-Me phone number at a specified time. See the “Starting or Joining a Meet-Me Conference Call” section on page 33 for additional instructions.

Starting and Joining a Standard Conference

A standard conference allows at least three people to participate in a single call.

If you want to...	Then...
<ul style="list-style-type: none">• Create a conference by calling participants• Add new participants to an existing conference	<ol style="list-style-type: none">1. From a connected call, press Confrn. (You may need to press the more softkey to see Confrn.)2. Enter the participant’s phone number.3. Wait for the call to connect.4. Press Confrn again to add the participant to your call.5. Repeat to add additional participants.
Participate in a conference	Answer the phone when it rings.
Create a conference by barging a call on a shared line	Highlight a call on a shared line and press cBarge . (You may need to press the more softkey to display cBarge .) See the “Using a Shared Line” section on page 36.

If you want to...	Then...
View a list of conference participants	<ol style="list-style-type: none"> 1. Highlight an active conference. 2. Press ConfList. <p>Participants are listed in the order in which they join the conference with the most recent additions at the top.</p>
Get an updated list of participants	While viewing the conference list, press Update .
See who started the conference	While viewing the conference list, locate the person listed at the bottom of the list with an asterisk (*) next to the name.
Drop the last party added to the conference	<p>Press RmLstC.</p> <p>You can remove participants only if you initiated the conference call.</p>
Remove any conference participant	<ol style="list-style-type: none"> 1. Highlight the participant's name. 2. Press Remove. <p>You can remove participants only if you initiated the conference.</p>
End your participation in a conference	Hang up or press EndCall .

Tips

- Calls must be on the same line before you can add them to a conference. If calls are on different lines, transfer them to a single line before using **Confrn**.
- Depending on how your phone is configured, if you leave a conference after creating it, the conference might end. To avoid this, transfer the conference before hanging up.

Starting or Joining a Meet-Me Conference Call

Meet-Me conferencing allows you to start or join a conference by calling the conference number.

If you want to...	Then...
Start a Meet-Me conference	<ol style="list-style-type: none"> 1. Obtain a Meet-Me phone number from your system administrator. 2. Distribute the number to participants. 3. When you are ready to start the meeting, go off-hook to invoke a dial tone, then press MeetMe. 4. Dial the Meet-Me conference number. Participants can now join the conference by dialing in. <p>Note Participants hear a busy tone if they call the conference before the initiator has joined. In this case, participants must call back.</p>
Join a Meet-Me conference	<p>Dial the Meet-Me conference number (provided by the conference initiator).</p> <p>Note Participants hear a busy tone if they call the conference before the initiator has joined. In this case, try your call again.</p>
End a Meet-Me conference	<p>All participants must hang up.</p> <p>The conference does not automatically end when the conference initiator disconnects.</p>


Advanced Call Handling

Advanced call-handling tasks involve special features that your system administrator might configure for your phone depending on your call-handling needs and work environment.


Speed Dialing

Speed dialing allows you to enter an index number, press a button, or select a phone screen item to place a call. Depending on configuration, your phone can support several speed-dial features:

- Speed-dial buttons
- Abbreviated Dialing
- Fast Dials

**Note**

- To set up speed-dial buttons and Abbreviated Dial, you must access your User Options web pages. See “Accessing Your User Options Web Pages” section on page 52.
- To set up Fast Dials, you must access the Personal Directory feature. See “Using Personal Directory on Your Phone” section on page 48.
- Alternately, your system administrator can configure speed-dial features for you.


If you want to...	Then...
Use speed-dial buttons	<div><div><div>1.</div><div>Set up speed-dial buttons. See the “Setting Up Speed Dials on the Web” section on page 55.</div></div><div><div>2.</div><div>To place a call, press  (a speed-dial button).</div></div></div> <div>Note If your phone supports the Busy Lamp Field (BLF) speed-dial feature, you can see if the speed-dial number is busy before dialing. See the “Using BLF to Determine a Line State” section on page 40.</div>
Use Abbreviated Dial	<div><div><div>1.</div><div>Set up Abbreviated Dialing codes. See the “Setting Up Speed Dials on the Web” section on page 55.</div></div><div><div>2.</div><div>To place a call, enter the Abbreviated Dialing code and press AbbrDial.</div></div></div>
Use Fast Dial	<div><div><div>1.</div><div>Create a Personal Address B ook entry and assign a Fast Dials code. See “Using Personal Directory on the Web” section on page 53.</div></div><div><div>2.</div><div>To place a call, access the Fast Dial service on your phone. See the “Using Personal Directory on Your Phone” section on page 48.</div></div></div>

Picking Up a Redirected Call on Your Phone

Call PickUp allows you to answer a call that is ringing on a coworker's phone by redirecting the call to your phone. You might use Call PickUp if you share call-handling with coworkers.

If you want to...	Then...
Answer a call that is ringing on another extension within your call pickup group	<ol style="list-style-type: none"> Do one of the following: <ul style="list-style-type: none"> If the PickUp softkey is available, press it. If the PickUp softkey is not available, go off-hook to display it, then press PickUp. <p>If your phone supports auto-pickup, you are now connected to the call.</p> If the call rings, press Answer to connect to the call.
Answer a call that is ringing on another extension outside of your group	<ol style="list-style-type: none"> Do one of the following: <ul style="list-style-type: none"> If the GPickUp softkey is available, press it. If the GPickUp softkey is not available, go off-hook to display it, then press GPickUp. Enter the group pickup code. If your phone supports auto-pickup, you are now connected to the call. If the call rings, press Answer to connect to the call.
Answer a call that is ringing on another extension in your group or in an associated group	<ol style="list-style-type: none"> Do one of the following: <ul style="list-style-type: none"> If the OPickUp softkey is available, press it. If the OPickUp softkey is not available, go off-hook to display it, then press OPickUp. <p>If your phone supports auto-pickup, you are now connected to the call.</p> If the call rings, press Answer to connect to the call.

Tips

- Pressing **PickUp** and **GPickUp** connects you to the call that has been ringing for the longest time.
- Pressing **OPickUp** connects you to the call in the pickup group with the highest priority.
- If you have multiple lines and want to pick up the call on a non-primary line, first press  for the desired line, then press a Call PickUp softkey.


Using a Shared Line

Your system administrator might ask you to use a shared line if you:

- Have multiple phones and want one phone number
- Share call-handling tasks with coworkers
- Handle calls on behalf of a manager

Understanding Shared Lines

Remote-in-Use Icon

The Remote-in-Use icon  appears when another phone that shares your line has a connected call. You can place and receive calls as usual on the shared line, even when the Remote-in-Use icon appears.

Sharing Call Information and Barging

Phones that share a line each display information about calls that are placed and received on the shared line. This information might include caller ID and call duration. (See the Privacy section for exceptions.)

When call information is visible in this way, you and coworkers who share a line can add yourselves to calls using either **Barge** or **cBarge**. See the “Adding Yourself to a Shared-Line Call” section on page 37.

Privacy

If you do not want coworkers who share your line to see information about your calls, enable the Privacy feature. Doing so also prevents coworkers from barging your calls. See the “Preventing Others from Viewing or Barging a Shared-Line Call” section on page 38.






Note

The maximum number of calls that a shared line supports can vary by phone.

Adding Yourself to a Shared-Line Call

Depending on how your phone is configured, you can add yourself to a call on a shared line using either **Barge** or **cBarge**.







If you want to...	Then...
See if the shared line is in use	Look for the Remote-in-Use icon  next to a red line button  .
View details about current calls on the shared line	Press the red line button  for the remote-in-use line. All non-private calls appear in the call activity area of the phone screen.
Add yourself to a call on a shared line using the Barge softkey	<ol style="list-style-type: none"> 1. Highlight a remote-in-use call. 2. Press Barge. (You may need to press the more softkey to display Barge.) <p>Other parties hear a beep tone announcing your presence.</p>
Add yourself to a call on a shared line using the cBarge softkey	<ol style="list-style-type: none"> 1. Highlight a remote-in-use call. 2. Press cBarge. (You may need to press the more softkey to display cBarge.) <p>Other parties hear a tone and brief audio interruption, and call information changes on the phone screen.</p>
Add new conference participants to a call that you have barged	<p>Barge the call using cBarge, if available.</p> <p>Unlike Barge, cBarge converts the call into a standard conference call, allowing you to add new conference participants. See the “Making Conference Calls” section on page 31.</p>
Leave a barged call	<p>Hang up.</p> <p>If you hang up after using Barge, the remaining parties hear a disconnect tone and the original call continues.</p> <p>If you hang up after using cBarge, the call remains a conference call (provided at least three participants remain on the line).</p>

Tips

- If a phone that is using the shared line has Privacy enabled, call information and barge softkeys will not appear on the other phones that share the line.
- You will be disconnected from a call that you have joined using **Barge** if the call is put on hold, transferred, or turned into a conference call.

Preventing Others from Viewing or Barging a Shared-Line Call

If you share a phone line, you can use the Privacy feature to prevent others who share the line from viewing or barging (adding themselves to) your calls.

If you want to...	Then...
Prevent others from viewing or barging calls on a shared line	<ol style="list-style-type: none">1. Press Private .2. To verify that Privacy is on, look for the Privacy-enabled icon  next to an amber line button .
Allow others to view or barge calls on a shared line	<ol style="list-style-type: none">1. Press Private .2. To verify that Privacy is off, look for the Privacy-disabled icon  next to an unlit line button .


Tips

- If the phone that shares your line has Privacy enabled, you can make and receive calls using the shared line as usual.
- The Privacy feature applies to all shared lines on your phone. Consequently, if you have multiple shared lines and Privacy is enabled, coworkers will not be able to view or barge calls on any of your shared lines.

Storing and Retrieving Parked Calls

You can park a call when you want to store the call so that you or someone else can retrieve it from another phone in the Cisco Unified CallManager system (for example, a phone at a coworker’s desk or in a conference room).

If you want to...	Then...
Store an active call using Call Park	<ol style="list-style-type: none">1. During a call, press Park. (You may need to press the more softkey to see Park.)2. Note the call park number displayed on your phone screen.3. Hang up.
Retrieve a parked call	Enter the call park number from any Cisco Unified IP Phone in your network to connect to the call.

**Note**



You have a limited amount of time to retrieve a parked call before it reverts to ringing at the original number. See your system administrator for details.

Making and Receiving Secure Calls

Depending on how your system administrator has configured your phone system, your phone might support making and receiving secure calls.

Your phone is capable of supporting these types of calls:

- *Authenticated* call—The identities of all phones participating in the call have been verified.
- *Encrypted* call—The phone is receiving and transmitting encrypted audio (your conversation) within the Cisco IP network. Encrypted calls are also authenticated.
- *Non-secure* call—At least one of the participating phones or the connection does not support these security features, or the phones cannot be verified.

If you want to...	Then...
Check the security level of a call	<div>Look for a security icon in the top right corner of the call activity area, next to the call duration timer:</div> <div><div> Authenticated call</div><div> Encrypted call</div><div>Neither security icon appears if the call is non-secure.</div></div>
Determine if secure calls can be made in your company	Contact your system administrator.





Note

There are interactions, restrictions, and limitations that affect how security features work on your phone. For more information, ask your system administrator.

Using Cisco Extension Mobility

Cisco Extension Mobility (EM) allows you to temporarily configure a Cisco Unified IP Phone as your own. Once you log in to EM, the phone adopts your user profile, including your phone lines, features, established services, and web-based settings. Your system administrator must configure EM for you.









If you want to...	Then...
Log in to EM	<ol style="list-style-type: none">1. Choose  > EM Service (name can vary).2. Enter your user ID and PIN (provided by your system administrator).3. If prompted, select a device profile.
Log out of EM	<ol style="list-style-type: none">1. Choose  > EM Service (name can vary).2. When prompted to log out, press Yes.

Tips

- EM automatically logs you out after a certain amount of time. This time limit is established by your system administrator.
- Changes that you make to your EM profile (from the User Options web pages) take effect the next time that you log in to EM on a phone.
- Settings that are controlled on the phone only are not maintained in your EM profile.









Using BLF to Determine a Line State

Depending on configuration, you can use the Busy Lamp Field (BLF) to determine the state of another phone line that is associated with a speed-dial button, call log, or directory listing on your phone. You can place a call to this line, regardless of the BLF status. This feature does not prevent dialing.

If you want to...	Then...
See the state of a speed-dial line	<div>Look for one of these indicators next to the line number:</div> <div><div> +  Line is in-use.</div><div> +  Line is idle.</div><div> BLF indicator unavailable for this line.</div></div>
See the state of a line listed in a call log or directory	<div>Look for one of these indicators next to the line number:</div> <div><div> Line is in-use.</div><div> Line is idle.</div><div> BLF indicator unavailable for this line.</div></div>

Using a Handset, Headset, and Speakerphone

You can use your phone with a handset, headset, or speakerphone.




If you want to...	Then...
Use the handset	Lift it to go off-hook; replace it to go on-hook.
Use a headset	<p>Press  to toggle headset mode on and off. If you use AutoAnswer, see the “Using AutoAnswer” section on page 42 for exceptions.</p> <p>You can use the headset in conjunction with all of the controls on your phone, including  and .</p>
Use the speakerphone	<p>Press  to toggle speakerphone mode on or off.</p> <p>Many of the actions you can take to dial a number or answer a call will automatically trigger speakerphone mode, assuming that the handset is in its cradle and  is not lit.</p>
Switch to the headset or speakerphone (from the handset) during a call	Press  or  , then hang up the handset.
Switch to the handset (from the speakerphone or headset) during a call	Lift the handset (without pushing any buttons).
Adjust the volume level for a call	<p>Press  during a call or after invoking a dial tone.</p> <p>This action adjusts the volume for the handset, speakerphone, or headset, depending on which device is in use.</p> <p>Press Save to preserve the volume level for future calls.</p>

Obtaining a Headset

Your phone supports four- or six-wire headset jacks. For information about purchasing headsets, see the “Headset Information” section on page 14.

Using AutoAnswer

When AutoAnswer is enabled, your phone answers incoming calls automatically after a few rings. Your system administrator configures AutoAnswer to use either the speakerphone or a headset. You might use AutoAnswer if you receive a high volume of incoming calls.



If you...	Then...
Use AutoAnswer with a headset	<p>Keep headset mode active (in other words, keep  illuminated) even when you are not on a call.</p> <p>To keep headset mode active, do one of the following:</p> <ul style="list-style-type: none">• Press EndCall to hang up.• Press New Call or Dial to place new calls. <p>If your phone is set up to use AutoAnswer in headset mode, calls will be answered automatically only if  is illuminated. Otherwise, calls ring normally and you must manually answer them.</p>
Use AutoAnswer with the speakerphone	<p>Keep the handset in the cradle and headset mode inactive ( unlit).</p> <p>Otherwise, calls ring normally and you must manually answer them.</p>

Using Phone Settings

You can customize your Cisco Unified IP Phone by adjusting the ring tone, background image, and other settings.






Customizing Rings and Message Indicators

You can customize the way your phone indicates an incoming call and a new voice mail message. You can also adjust the ringer volume for your phone.


If you want to...	Then...
Change the ring tone per line	<ol style="list-style-type: none"> 1. Choose  > User Preferences > Rings. 2. Choose a phone line or the default ring setting. 3. Choose a ring tone to play a sample of it. 4. Press Select and Save to set the ring tone, or press Cancel.
Change the ring pattern per line (flash-only, ring once, beep-only, etc.)	<ol style="list-style-type: none"> 1. Log in to your User Options web pages. (See the “Accessing Your User Options Web Pages” section on page 52.) 2. Access your call ring pattern settings. (See the “Controlling Line Settings on the Web” section on page 58.) <p>Note Before you can access this setting, your system administrator might need to enable it for you.</p>
Adjust the volume level for the phone ringer	Press  while the handset is in the cradle and the headset and speakerphone buttons are off. The new ringer volume is saved automatically.
Change the way that the voice message light on your handset works	<ol style="list-style-type: none"> 1. Log in to your User Options web pages. (See the “Accessing Your User Options Web Pages” section on page 52.) 2. Access your message indicator settings. (See the “Controlling Line Settings on the Web” section on page 58.) <p>Note Typically, the default system policy is to indicate a new voice message by displaying a steady light on the handset light strip.</p>

Customizing the Phone Screen

You can adjust the characteristics of your phone screen.





If you want to...	Then...
Change the phone screen contrast	<div><div>1. Choose  > User Preferences > Contrast.</div><div>2. To make adjustments, press Up, Down or .</div><div>3. Press Save, or press Cancel.</div><div><div>Note</div><div>If you accidentally save a very light or very dark contrast and cannot see the phone screen display: Press  and then press 1, 3 on the keypad. Next, press  to change the contrast until you can see the phone screen display, and then press Save.</div></div></div>
Change the background image	<div><div>1. Choose  > User Preferences > Background Images.</div><div>2. Scroll through available images and press Select to choose an image.</div><div>3. Press Preview to see a larger view of the background image.</div><div>4. Press Exit to return to the selection menu.</div><div>5. Press Save to accept the image or press Cancel.</div><div><div>Note</div><div>If you do not see a selection of images, then this option has not been enabled on your system.</div></div></div>
Change the language on your screen	<div><div>1. Log in to your User Options web pages. (See the “Accessing Your User Options Web Pages” section on page 52.)</div><div>2. Access your user settings. (See the “Controlling User Settings on the Web” section on page 57.)</div></div>
Change the line text label	<div><div>1. Log in to your User Options web pages. (See the “Accessing Your User Options Web Pages” section on page 52.)</div><div>2. Access your line label settings. (See the “Controlling Line Settings on the Web” section on page 58.)</div></div>



Using Call Logs and Directories

This section describes how you can use call logs and directories. To access both features, use the Directories button .

Using Call Logs

Your phone maintains records of your missed, placed, and received calls.

If you want to...	Then...
View your call logs	Choose  > Missed Calls, Placed Calls, or Received Calls . Each log can store up to 100 records. To view a truncated listing, highlight it and press EditDial .
Erase your call logs	Press  , then press Clear . Doing so erases all records in all logs.
Dial from a call log (while not on another call)	<ol style="list-style-type: none">1. Choose  > Missed Calls, Placed Calls, or Received Calls.2. Highlight a call record from the log.3. If you need to edit the displayed number, press EditDial followed by << or >>. To delete the number, press EditDial followed by Delete. (You may need to press the more softkey to display Delete.)4. Go off-hook to place the call.
Dial from a call log (while connected to another call)	<ol style="list-style-type: none">1. Choose  > Missed Calls, Placed Calls, or Received Calls.2. Highlight a call record from the log.3. If you need to edit the displayed number, press EditDial followed by << or >>. To delete the number, press EditDial followed by Delete. (You may need to press the more softkey to display Delete.)4. Press Dial.5. Choose a menu item to handle the original call:<ul style="list-style-type: none">• Hold—Puts the first call on hold and dials the second.• Transfer—Transfers the first party to the second and drops you from the call. (Press Transfer again after dialing to complete the action.)• Conference—Creates a conference call with all parties, including you. (Press Confrn again after dialing to complete the action.)• EndCall—Disconnects the first call and dials the second.

If you want to...	Then...
See if the line in the call log is busy before placing a call to that line	Look for Busy Lamp field indicators. See the “Using BLF to Determine a Line State” section on page 40.
Place a call from a URL entry in a call log	<ol style="list-style-type: none">1. Choose  > Missed Calls, Placed Calls, or Received Calls.2. Highlight the URL entry you want to dial.3. If you need to edit the entry, press EditDial. The  icon appears to indicate that you can begin editing characters in the URL entry.4. Press Dial.



Directory Dialing

Depending on configuration, your phone can provide corporate and personal directory features:

- Corporate Directory—Corporate contacts that you can access on your phone. Corporate Directory is set up and maintained by your system administrator.
- Personal Directory—If available, personal contacts and associated speed-dial codes that you can configure and access from your phone and User Options web pages. Personal Directory is comprised of Personal Address Book (PAB) and Fast Dials:
 - PAB is a directory of your personal contacts.
 - Fast Dials allows you to assign codes to PAB entries for quick dialing.

Using Corporate Directory on Your Phone

You can use a corporate directory to place calls to coworkers.


If you want to...	Then...
Dial from a corporate directory (while not on another call)	<ol style="list-style-type: none">1. Choose  > Corporate Directory (exact name can vary).2. Use your keypad to enter a full or partial name and press Search.3. To dial, select the listing, or scroll to the listing and go off-hook.
Dial from a corporate directory (while on another call)	<ol style="list-style-type: none">1. Choose  > Corporate Directory (exact name can vary).2. Use your keypad to enter a full or partial name and press Search.3. Scroll to a listing and press Dial.4. Choose a menu item to handle the original call:<ul style="list-style-type: none">• Hold—Puts the first call on hold and dials the second.• Transfer—Transfers the first party to the second and drops you from the call. (Press Transfer again after dialing to complete the action.)• Conference—Creates a conference call with all parties, including you. (Press Confrn again after dialing to complete the action.)• EndCall—Disconnects the first call and dials the second.
See if the phone line in the directory is busy	Look for Busy Lamp Field (BLF) indicators. See the “Using BLF to Determine a Line State” section on page 40.




Tip

Use the numbers on your keypad to enter characters on your phone screen. Use the Navigation button on your phone to move between input fields.

Using Personal Directory on Your Phone

The Personal Directory feature set contains your Personal Address Book (PAB) and Fast Dials. This section describes how to set up and use Personal Directory on your phone. Alternately, see the “Using Personal Directory on the Web” section on page 53.


If you want to...	Then...
Access Personal Directory (for PAB and Fast Dial codes)	<ol style="list-style-type: none">1. Choose  > Personal Directory (exact name can vary).2. Enter your Cisco Unified CallManager user ID and PIN, then press Submit.
Search for a PAB entry	<ol style="list-style-type: none">1. Access Personal Directory, then choose Personal Address Book.2. Enter search criteria and press Submit.3. You can choose Previous or Next to move through listings.4. Highlight the PAB listing that you want and press Select.
Dial from a PAB entry	<ol style="list-style-type: none">1. Search for a listing.2. Highlight the listing and press Select.3. Press Dial. (You may need to press the more softkey to see Dial.)4. Enter the participant’s phone number.5. Highlight the number that you want to dial and press OK.6. Press OK again to dial the number.
Delete a PAB entry	<ol style="list-style-type: none">1. Search for a listing.2. Highlight the listing and press Select.3. Press Delete.4. Choose OK to confirm the deletion.
Edit a PAB entry	<ol style="list-style-type: none">1. Search for a listing.2. Highlight the listing and press Edit to modify a name or email address.3. If necessary, choose Phones to modify a phone number.4. Press Update.

If you want to...	Then...
Add a new PAB entry	<ol style="list-style-type: none"> 1. Access Personal Directory, then choose Personal Address Book. 2. Access the Search page by choosing Submit. (You do not need to input search information first.) 3. Press New. 4. Use your phone keypad to enter a name and e-mail information. 5. Choose Phones and use the keypad to enter phone numbers. Be sure to include any necessary access codes such as a 9 or 1. 6. Choose Submit to add the entry to the database.
Assign a Fast Dial code to a PAB entry	<ol style="list-style-type: none"> 1. Search for a PAB entry. 2. Highlight the listing and press Select. 3. Press Fast Dial. 4. Highlight the number that you want to dial and press Select. 5. Highlight the Fast Dial code that you want to assign to the number and press Select.
Add a new Fast Dial code (not using a PAB entry)	<ol style="list-style-type: none"> 1. Choose  > Personal Directory > Personal Fast Dials. 2. Press Fast Dial. 3. Highlight a Fast Dial code that is unassigned and press Select. 4. Press Assign. 5. Enter a phone number. 6. Press Update.
Search for Fast Dial codes	<ol style="list-style-type: none"> 1. Choose  > Personal Directory > Personal Fast Dials. 2. You can choose Previous or Next to move through listings. 3. Highlight the listing that you want and press Select.
Place a call using a Fast Dial code	<ol style="list-style-type: none"> 1. Search for a Fast Dial code. 2. Highlight the listing you want and press Select. 3. Press Dial. 4. Choose OK to complete the action.
Delete a Fast Dial code	<ol style="list-style-type: none"> 1. Search for a Fast Dial code. 2. Highlight the listing you want and press Select. 3. Press Remove.
Log out of Personal Directory	<ol style="list-style-type: none"> 1. Choose  > Personal Directory (exact name can vary). 2. Choose Logout.

Tips




- Your system administrator can provide you with the user ID and PIN that you need to log in to Personal Directory.
- Personal Directory automatically logs you out after a certain amount of time. This time limit can vary. Ask your system administrator for more information.
- Use the numbers on your keypad to enter characters on your phone screen. Use the Navigation button on your phone to move between input fields.

Accessing Voice Messages

To access voice messages, use the  button.



Note Your company determines the voice message service that your phone system uses. For the most accurate and detailed information, refer to the documentation that came with your voice message system.

If you want to...	Then...
Set up and personalize your voice message service	Press  and follow the voice instructions. If a menu appears on your screen, choose an appropriate menu item.
See if you have a new voice message	Look for: <ul style="list-style-type: none">• A steady red light on your handset. (This indicator can vary. See the “Customizing Rings and Message Indicators” section on page 43.)• A flashing message waiting icon  and text message on your screen.
Listen to your voice messages or access the voice messages menu	Press  . Depending on your voice message service, doing so either auto-dials the message service or provides a menu on your screen.
Send a call to your voice message system	Press iDivert . The iDivert feature automatically transfers a call (including a ringing or held call) to your voice message system. Callers will hear your voice message greeting and can leave you a message.

Customizing Your Phone on the Web

Your Cisco Unified IP Phone is a network device that can share information with other network devices in your company, including your personal computer. You can use your computer to log in to your Cisco Unified CallManager User Options web pages, where you can control features, settings, and services for your Cisco Unified IP Phone. For example, you can set up speed-dial buttons from your User Options web pages.

Accessing Your User Options Web Pages

This section describes how to log in to your User Options web pages.

If you want to...	Then do this...
Log in to your User Options web pages	<ol style="list-style-type: none">1. Obtain a User Options web page URL, user ID, and default password from your system administrator.2. Open a web browser on your computer, enter the URL, and log on.3. If prompted to accept security settings, click Yes or Install Certificate. The Cisco Unified CallManager User Options main web page displays. From this page you can choose User Options to access User Settings, Directory features, a Personal Address Book, and Fast Dials. Or, to access phone-specific options, select a device (see below).
Select a device after logging in	<ol style="list-style-type: none">1. After you have logged in to your User Options web pages, choose User Options > Device. The Device Configuration page displays.2. If you have multiple devices assigned to you, verify that the appropriate device (phone model or Extension Mobility profile) is selected. If necessary, choose another device from the Name drop-down menu. From the Device Configuration page, you can access all of the various configuration options available for your phone (other pages might not provide access to all options).<ul style="list-style-type: none">– Choose User Options to access User Settings, Directory, Personal Address Book, and Fast Dials.– Choose toolbar buttons to access phone-specific options, such as line settings, phone service settings, and speed dials. To return to the Device Configuration page from another page, choose User Options > Device.


Configuring Features and Services on the Web

The topics in this section describe how to configure features and services from your User Options web pages after logging in. See the “Accessing Your User Options Web Pages” section on page 52.

Using Personal Directory on the Web

The Personal Directory feature set consists of:

- A Personal Address Book (PAB)
- Fast Dials
- The Address Book Synchronization Tool (TABSynch)



Note You can also access PAB and Fast Dials from your phone. See the “Using Personal Directory on Your Phone” section on page 48.

Using Your Personal Address Book on the Web

This section describes how to use your PAB from the User Options web pages.

If you want to...	Then do this after you log in...
Add a new PAB entry	<ol style="list-style-type: none">1. Choose User Options > Personal Address Book.2. Click New.3. Enter information for the entry.4. Click Save.
Search for a PAB entry	<ol style="list-style-type: none">1. Choose User Options > Personal Address Book.2. Specify search information and click Find.
Edit a PAB entry	<ol style="list-style-type: none">1. Search for a PAB entry.2. Click a name or nickname.3. Edit the entry as needed and click Save.
Delete a PAB entry	<ol style="list-style-type: none">1. Search for a PAB entry.2. Select one or more entries.3. Click Delete Selected.

Configuring Fast Dials on the Web

This section describes how to assign Fast Dials from your User Options web pages.

If you want to...	Then do this after you log in...
Assign a Fast Dial code to a PAB entry	<ol style="list-style-type: none">1. Create a PAB entry. See the “Using Your Personal Address Book on the Web” section on page 53.2. Choose User Options > Fast Dials.3. Click Add New.4. Change the Fast Dial code, if desired.5. Use the Search Options area to find the appropriate PAB entry.6. Click a phone number in the Search Results area.7. Click Save.
Assign a Fast Dial code to a phone number (without using a PAB entry)	<ol style="list-style-type: none">1. Choose User Options > Fast Dials.2. Click Add New.3. Change the Fast Dial code, if desired.4. Enter a phone number.5. Click Save.
Search for a Fast Dial entry	<ol style="list-style-type: none">1. Choose User Options > Fast Dials.2. Specify search information and click Find.
Edit a Fast Dial phone number	<ol style="list-style-type: none">1. Choose User Options > Fast Dials.2. Search for the Fast Dial entry that you want to edit.3. Click on a component of the entry.4. Change the phone number.5. Click Save.
Delete a Fast Dial entry	<ol style="list-style-type: none">1. Search for a Fast Dial.2. Select one or more entries.3. Click Delete Selected.

Tips

- You can create up to 500 Fast Dial and PAB entries.
- You can create a new Fast Dial entry without using a PAB entry. Such Fast Dial entries are labeled “raw” in the User Options web pages and do not display a configurable text label.

Using the Address Book Synchronization Tool

You can use the Address Book Synchronization Tool (TABSynch) to synchronize your existing Microsoft Windows Address Book (if applicable) with your PAB. Entries from your Microsoft Windows Address Book will then be accessible on your Cisco Unified IP Phone and User Options web pages. Your system administrator can give you access to TABSynch and provide detailed instructions.

Setting Up Speed Dials on the Web

Depending on configuration, your phone can support several speed-dial features:

- Speed-dial buttons
- Abbreviated Dialing
- Fast Dials



Note For help using speed-dial features, see the “Speed Dialing” section on page 34.




If you want to...	Then do this after you log in...
Set up speed-dial buttons	<ol style="list-style-type: none">1. Select a device.2. Click Speed Dials.3. Enter a number and label for a speed-dial button (programmable button) on your phone.4. Click Save. <p>Note Your phone uses the ASCII Label field if the phone does not support double-byte character sets.</p>
Set up Abbreviated dialing	<ol style="list-style-type: none">1. Select a device.2. Click Speed Dials.3. Enter a number and label for an Abbreviated Dialing code.4. Click Save.
Set up Fast Dials	See the “Configuring Fast Dials on the Web” section on page 54. You can also set up Fast Dials on your phone. See the “Using Personal Directory on Your Phone” section on page 48.

Tip

You can set up a speed-dial button for each programmable button on your phone that is not reserved as a line button. Alternately, use Abbreviated Dial or Fast Dial.

Setting Up Phone Services on the Web

Phone services can include special phone features, network data, and web-based information (such as stock quotes and movie listings). You must first subscribe to a phone service before accessing it on your phone.

If you want to...	Then do this after you log in and select a device...
Subscribe to a service	<ol style="list-style-type: none">1. Select a device.2. Click Phone Services.3. Click Add New.4. Choose a service from the drop-down list and click Next.5. Change the service label and/or enter additional service information, if available (optional).6. Click Save.
Search for services	<ol style="list-style-type: none">1. Select a device.2. Click Phone Services.3. Click Find.
Change or end services	<ol style="list-style-type: none">1. Search for services.2. Select one or more entries.3. Click Delete Selected.
Change a service name	<ol style="list-style-type: none">1. Search for services.2. Click on the service name.3. Change the information and click Save.
Add a service to an available programmable phone button 	<ol style="list-style-type: none">1. Select a device.2. Click Service URL. <p>Note If you do not see this option, ask your system administrator to configure a service URL button for your phone.</p> <ol style="list-style-type: none">3. Choose a service from the Button Service drop-down list.4. If you want to rename the service, edit the label fields. <p>Note Your phone uses the ASCII Label field if the phone does not support double-byte character sets.</p> <ol style="list-style-type: none">5. Click Save.6. Click Reset to reset your phone (necessary to see the new button label on your phone).
Access a service on your phone	Press  on your phone. Or, if you have added a service to a programmable button  , press the button.

Controlling User Settings on the Web

User settings include your password, PIN, and language (locale) settings.

If you want to...	Then do this after you log in...
Change your password	<ol style="list-style-type: none"> 1. Choose User Options > User Settings. 2. In the Browser Password area, enter information. 3. Click Save.
Change your PIN	<ol style="list-style-type: none"> 1. Choose User Options > User Settings. 2. In the Phone PIN area, enter information. 3. Click Save.
Change the language (locale) for your User Options web pages	<ol style="list-style-type: none"> 1. Choose User Options > User Settings. 2. In the User Locale area of the User Settings page, choose an item from the Locale drop-down list. 3. Click Save.
Change the language (locale) for your phone screen	<ol style="list-style-type: none"> 1. Go to the Device Configuration page by choosing User Options > Device. 2. Choose an item from the User Locale drop-down list. 3. Click Save.

Tip

Your PIN and password allow you to access different features and services. For example, use your PIN to log in to Cisco Extension Mobility or Personal Directory on your phone. Use your password to log in to your User Options web pages and Cisco WebDialer on your personal computer. For more information, ask your system administrator.

Controlling Line Settings on the Web

Line settings affect a specific phone line (directory number) on your phone. Line settings can include call forwarding, voice message indicators, ring patterns, and line labels.



Note

- You can also set up call forwarding (for your primary phone line) directly on your phone. See the “Forwarding All Calls to Another Number” section on page 29.
- To learn about phone settings that you can access directly on your phone, see the “Using Phone Settings” section on page 43.


If you want to...	Then do this after you log in...
Set up call forwarding per line	<ol style="list-style-type: none">1. Select a device.2. Click Line Settings.3. If you have more than one directory number (line) assigned to your phone, verify that the appropriate line is selected or choose a new one.4. In the Incoming Call Forwarding area, choose call forwarding settings for various conditions.5. Click Save.
Change the voice message indicator setting per line	<ol style="list-style-type: none">1. Select a device.2. Click Line Settings.3. If you have more than one directory number (line) assigned to your phone, verify that the appropriate line is selected or choose a new one.4. In the Message Waiting Lamp area, choose from various settings. <p>Note Typically, the default message waiting setting prompts your phone to display a steady red light from the handset light strip to indicate a new voice message.</p> <ol style="list-style-type: none">5. Click Save.

If you want to...	Then do this after you log in...
Change the ring pattern per line	<ol style="list-style-type: none"> 1. Select a device. 2. Click Line Settings. 3. If you have more than one directory number (line) assigned to your phone, verify that the appropriate line is selected or choose a new one. 4. In the Ring Settings area, choose a setting to tell your phone how to indicate an incoming call on the selected line. 5. Click Save. <p>Note The “idle” ring setting pertains if you receive an incoming call when the phone is idle. The “consecutive” ring setting pertains if you receive an incoming call when the phone is active.</p>
Change or create a line text label that appears on your phone screen	<ol style="list-style-type: none"> 1. Select a device. 2. Click Line Settings. 3. If you have more than one directory number (line) assigned to your phone, verify that the appropriate line is selected or choose a new one. 4. In the Line Text Label area, enter a text label. 5. Click Save. <p>Note Your phone uses the ASCII Label field if the phone does not support double-byte character sets.</p>

Using Cisco WebDialer

Cisco WebDialer allows you to make calls on your Cisco Unified IP Phone to directory contacts by clicking items in a web browser. Your system administrator must configure this feature for you.

If you want to...	Then...
Use WebDialer with your User Options directory	<ol style="list-style-type: none">1. Log into your User Options web pages. See the “Accessing Your User Options Web Pages” section on page 52.2. Choose User Options > Directory and search for a coworker.3. Click the number that you want to dial.4. If this is your first time using WebDialer, set up preferences and click Submit. (See the last row in this table for details.)5. If the Make Call page appears, click Dial. (See the last row in this table to learn how to suppress this page in the future, if desired.) The call is now placed on your phone.6. To end a call, click Hangup or hang up from your phone.
Use WebDialer with another online corporate directory (not your User Options directory)	<ol style="list-style-type: none">1. Log into a WebDialer-enabled corporate directory and search for coworkers.2. Click the number that you want to dial.3. When prompted, enter your user ID and password.4. If this is your first time using WebDialer, set up preferences and click Submit. (See the last row in this table for details.)5. If the Make Call page appears, click Dial. (See the last row in this table to learn how to suppress this page in the future, if desired.) The call is now placed on your phone.6. To end a call, click Hangup or hang up from your phone.

If you want to...	Then...
Log out of WebDialer	Click the logout icon in the Make Call or Hang Up page.
Set up, view, or change WebDialer preferences	<p data-bbox="391 237 713 264">Access the Preferences page.</p> <p data-bbox="391 277 1257 334">The Preferences page appears the first time that you use WebDialer (after you click the number that you want to dial.)</p> <p data-bbox="391 347 1224 406">To return to Preferences in the future, click the preferences icon from the Make Call or Hang Up page.</p> <p data-bbox="391 418 991 446">The Preferences page contains the following options:</p> <ul data-bbox="404 459 1257 914" style="list-style-type: none"> <li data-bbox="404 459 1186 521">• Preferred language—Determines the language used for WebDialer settings and prompts. <li data-bbox="404 534 1257 716">• Use permanent device—Identifies the Cisco Unified IP Phone and directory number (line) that you will use to place WebDialer calls. If you have one phone with a single line, the appropriate phone and line are automatically selected. Otherwise, choose a phone and/or line. Phones are specified by host name. (To display the host name on the phone, choose  > Network Configuration > Host Name.) <li data-bbox="404 729 1257 813">• Use Extension Mobility—If selected, prompts WebDialer to use the Cisco Unified IP Phone that is associated with your Extension Mobility profile (if available). <li data-bbox="404 826 1257 914">• Do not display call confirmation—If selected, prompts WebDialer to suppress the Make Call page. This page appears by default after you click a phone number in a WebDialer-enabled online directory.

Understanding Additional Configuration Options

Your system administrator can configure your phone to use specific button and softkey templates along with special services and features, if appropriate. This table provides an overview of some configuration options that you might want to discuss with your phone system administrator based on your calling needs or work environment.



Note

You can locate Phone Guides and other documents listed in this table on the web:
http://www.cisco.com/univercd/cc/td/doc/product/voice/c_ipphon/index.htm

If you...	Then...	For more information...
Need to handle more calls on your phone line	Ask your system administrator to configure your line to support more calls.	Talk to your system administrator or phone support team.
Need more than one phone line	Ask your system administrator to configure one or more additional directory numbers for you.	Talk to your system administrator or phone support team.
Need more speed-dial buttons	First make sure that you are using all of your currently available speed-dial buttons. If you need additional speed-dial buttons, try using Abbreviated Dialing or subscribing to the Fast Dial service.	See the “Speed Dialing” section on page 34.
Want to use one extension for several phones	Request a shared line. This allows you to use one extension for your desk phone and lab phone, for example.	See the “Using a Shared Line” section on page 36.
Share phones or office space with coworkers	Consider using: <ul style="list-style-type: none">• Call Park to store and retrieve calls without using the transfer feature• Call Pickup to answer calls ringing on another phone• A shared line to view or join coworkers’ calls• Cisco Extension Mobility to apply your phone number and user profile to a shared Cisco Unified IP Phone	Ask your system administrator about these features and see the: <ul style="list-style-type: none">• “Advanced Call Handling” section on page 34• “Using a Shared Line” section on page 36• “Using Cisco Extension Mobility” section on page 40


If you...	Then...	For more information...
Answer calls frequently or handle calls on someone's behalf	Ask your system administrator to set up the AutoAnswer feature for your phone.	See the "Using AutoAnswer" section on page 42.
Determine the state of a phone line associated with a speed-dial button, call log, or directory listing on your phone	Ask your administrator to set up the Busy Lamp Field (BLF) feature for your phone.	See the "Using BLF to Determine a Line State" section on page 40.
Want to temporarily apply your phone number and settings to a shared Cisco Unified IP Phone	Ask your system administrator about the Cisco Extension Mobility Service.	See the "Using Cisco Extension Mobility" section on page 40.

Troubleshooting Your Phone

This section provides information to help you troubleshoot problems with your phone.




General Troubleshooting

This section provides information to help you troubleshoot general problems with your phone. For more information, see your system administrator.

Symptom	Explanation
You cannot hear a dial tone or complete a call	One or more of the following factors might apply: <ul style="list-style-type: none">You must log into the Extension Mobility service.Your phone has time-of-day restrictions that prevent you from using some features during certain hours of the day.
The Settings button is unresponsive	Your system administrator might have disabled  on your phone.
The softkey that you want to use does not appear	One or more of the following factors might apply: <ul style="list-style-type: none">You must press more to reveal additional softkeys.You must change the line state (for example, go off-hook or have a connected call).Your phone is not configured to support the feature associated with that softkey.
Barge fails and results in a fast busy tone	You cannot barge an encrypted call if the phone you are using is not configured for encryption. When your barge attempt fails for this reason, your phone plays a fast busy tone.
You are disconnected from a call that you joined using Barge	You will be disconnected from a call that you have joined using Barge if the call is put on hold, transferred, or turned into a conference call.
Cisco CallBack fails	The other party might have call forwarding enabled.

Viewing Phone Administration Data

Your system administrator might ask you to access administration data on your phone for troubleshooting purposes.

If you are asked to...	Then...
Access network configuration data	Choose  > Network Configuration and select the network configuration item that you want to view.
Access status data	Choose  > Status and select the status item that you want to view.
Access phone model information	Choose  > Model Information .

Using the Quality Reporting Tool

Your system administrator may temporarily configure your phone with the Quality Reporting Tool (QRT) to troubleshoot performance problems. You can press **QRT** to submit information to your system administrator. Depending on configuration, use the QRT to:

- Immediately report an audio problem on a current call.
- Select a general problem from a list of categories and choose reason codes.

Cisco One-Year Limited Hardware Warranty Terms

There are special terms applicable to your hardware warranty and various services that you can use during the warranty period. Your formal Warranty Statement, including the warranties and license agreements applicable to Cisco software, is available on Cisco.com. Follow these steps to access and download the *Cisco Information Packet* and your warranty and license agreements from Cisco.com.

1. Launch your browser, and go to this URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpkc/cetrans.htm

The Warranties and License Agreements page appears.

2. To read the *Cisco Information Packet*, follow these steps:

- a. Click the **Information Packet Number** field, and make sure that the part number 78-5235-03A0 is highlighted.
- b. Select the language in which you would like to read the document.
- c. Click **Go**.

The Cisco Limited Warranty and Software License page from the Information Packet appears.

- d. Read the document online, or click the **PDF** icon to download and print the document in Adobe Portable Document Format (PDF).



Note

You must have Adobe Acrobat Reader to view and print PDF files. You can download the reader from Adobe's website: <http://www.adobe.com>

3. To read translated and localized warranty information about your product, follow these steps:

- a. Enter this part number in the Warranty Document Number field:
78-10747-01C0
- b. Select the language in which you would like to view the document.
- c. Click **Go**.

The Cisco warranty page appears.

- d. Read the document online, or click the **PDF** icon to download and print the document in Adobe Portable Document Format (PDF).

You can also contact the Cisco service and support website for assistance:

http://www.cisco.com/public/Support_root.shtml.

Duration of Hardware Warranty

One (1) Year

Replacement, Repair, or Refund Policy for Hardware

Cisco or its service center will use commercially reasonable efforts to ship a replacement part within ten (10) working days after receipt of a Return Materials Authorization (RMA) request. Actual delivery times can vary, depending on the customer location.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy.

To Receive a Return Materials Authorization (RMA) Number

Contact the company from whom you purchased the product. If you purchased the product directly from Cisco, contact your Cisco Sales and Service Representative.

Complete the information below, and keep it for reference.

Company product purchased from	
Company telephone number	
Product model number	
Product serial number	
Maintenance contract number	



Index

A

Address Book Synchronization Tool **55**
answering calls, options for **25**
ASCII label field support **55, 56**
audio problems **65**
audio, quality of **14**
authenticated calls **39**
Auto Dial **23**
AutoAnswer **42**

B

barge
 and privacy **38**
 and shared lines **36**
 using **37**
BLF **40**
Busy Lamp Field
 See BLF **40**

C

call activity area, viewing **19**
call forwarding **29**
call logs
 erasing **45**
 viewing and dialing from **45**

call park **38**
call pickup, using **35**
call waiting **25**
caller ID **19**
call-handling, advanced **34**
call-handling, basic **23**
calls
 answering **25**
 barging **37**
 blocking **30**
 compared to lines **21**
 conference features for **31**
 ending **26**
 forwarding **29**
 handling multiple **27**
 holding and resuming **26**
 icons for **21**
 maximum per line **21**
 multiple parties on **31**
 multiple, switching between **27**
 muting **27**
 parking **38**
 placing **23**
 redirecting while ringing **25, 35**
 reporting problems with **65**
 secure **39**
 storing and retrieving **38**

- transferring **28**
- using DND **30**
- viewing **19, 27**
- viewing multiple **27**
- cBarge **37**
- Cisco Unified IP Phone
 - adjusting height of **13**
 - connecting **12**
 - description of **15**
 - feature configuration for **22, 62**
 - illustration of **16**
 - online help for **20**
 - registering **13**
 - securing handset rest **13**
- Cisco WebDialer
 - See also* WebDialer **60**
- conference calls
 - Meet-Me **31, 33**
 - standard **31**
- configuration
 - Fast Dials **54**
 - features and services **53**
 - options **62**
- corporate directory
 - dialing from web page with **24**
 - using on phone **24**
- customization
 - messages **51**

D

- dialing, options for **23**
- directories button, description of **17**

- directory
 - corporate **46**
 - dialing from web page with **24**
 - personal **46**
 - using on phone **24, 45**
- DND **30**
- Do Not Disturb
 - See* DND **30**
- do not disturb **30**

E

- encrypted calls **39**
- ending a call, options for **26**
- Extension Mobility
 - log in **40**
 - log out **40**
- extension numbers, viewing **19**

F

- Fast Dial service
 - dialing with **25**
- feature buttons
 - directories **17**
 - help **17**
 - messages **17**
 - services **17**
 - settings **17**
- feature menus, using **22**
- features, availability of **22, 62**
- footstand
 - adjusting **13**

button, identifying **17**
forwarding calls, options for **29**

G

group call pickup, using **35**

H

handset

- light strip **18**
- securing in cradle **13**
- using **41**

hanging up, options for **26**

headset

- answering calls with **25**
- audio quality **14**
- button, identifying **18**
- hanging up with **26**
- mode **41**
- obtaining **41**

headset performance, general **14**

help button, description of **17**

help, using **20**

hold

- and resuming calls **26**
- and switching calls **27**
- and transferring **28**
- using **26**

I

icons

- for call states **21**
- for lines **21**

iDivers

- description of **1**
- transferring calls with **28, 51**

installing, Cisco Unified IP Phone **12**

K

keypad

- description of **18**

L

language (locale) settings **57**

line buttons, identifying **17**

lines

- and call states **21**
- and using BLF **40**
- description of **21**
- icons **21**
- viewing **19**

M

Meet-Me conferences **31, 33**

menus, using **22**

messages

- indicator for **43, 51**
- listening to **51**

messages button, description of **17**

missed calls, records of **45**
multiple calls, handling **27**
mute button, description of **18**
mute, using **27**

N

navigation button, description of **18**
network configuration data, locating **64**

O

on-hook dialing **23**
online help, using **20**

P

PAB **46**
Personal Address Book
 See PAB **48**
Personal Address Book (PAB)
 dialing from **25**
phone lines
 buttons for **17**
 description of **21**
 viewing **19**
phone screen
 adjusting contrast of **44**
 changing language of **44**
 cleaning **19**
 features of **19**
phone services
 See also User Options web pages **56**

placed calls, records of **45**
placing calls, options for **23**
privacy
 and shared lines **36**
 using **38**
programmable buttons
 description of **17**
 labels for **19**

Q

QRT **65**
QRT, using **65**
Quality Reporting Tool **65**

R

received calls, records of **45**
redial **23**
Remote-in-Use icon for shared lines **36**
resume, using **26**
ringer
 customizing **43**
 indicator for **18**

S

safety, warnings **2**
secure calls **39**
security
 levels of **39**
 making and receiving secure calls **39**
 verifying non-secure calls **39**

- services
 - changing or ending **56**
 - service names **56**
 - subscribing to **56**
- services button, description of **17**
- settings button, description of **17**
- shared lines
 - and Remote-in-Use icon **36**
 - description of **36**
 - with barge **37**
 - with privacy **38**
- softkey buttons
 - description of **18**
 - labels for **19**
- sound
 - See* audio, quality of **14**
- speakerphone
 - answering calls with **25**
 - button, identifying **18**
 - hanging up with **26**
 - mode **41**
- speed dial **34**
 - buttons, identifying **17**
 - labels **19**
 - using **24**
- status data, locating **64**
- status line, viewing **19**
- switching calls **27**

T

- Tabs, phone and feature **19**
- TABSynch **55**

- TAPS, using **13**
- text, entering on phone **22**
- Tool for Auto-Registered Phones Support **13**
- transferring, options for **28**
- troubleshooting **64**
 - See also* QRT **64**

U

- URL dialing mode **46**
- User Options web pages
 - subscribing and unsubscribing to phone services **56**

V

- voice message indicator **51**
- voice message service **51**
- volume button, description of **18**

W

- warnings, safety **2**
- web-based services
 - See* User Options web pages **56**
- WebDialer **24**



Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA

www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands

www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA

www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912

www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

**Cisco Systems has more than 200 offices in the following countries. Addresses, phone numbers, and fax numbers are listed on the
Cisco Web site at www.cisco.com/go/offices**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic • Denmark • Dubai, UAE
Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico
The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore
Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

CCSP, CCVP, the Cisco Square Bridge logo, Follow Me Browsing, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Access Registrar, Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, FormShare, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, the Networkers logo, Networking Academy, Network Registrar, Packet, PIX, Post-Routing, Pre-Routing, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StrataView Plus, TeleRouter, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0502R)

© 2006 Cisco Systems, Inc. All rights reserved.



The Java logo is a trademark or registered trademark of Sun Microsystems, Inc. in the U.S. or other countries.